

Message

From: Schulman, Michael [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=35D7024F00644B3D8B5DBA4940506834-SCHULMAN, M]
Sent: 6/23/2021 3:26:16 PM
To: Plate, Mathew [Plate.Mathew@epa.gov]; Lee, Alana [lee.alana@epa.gov]
BCC: Ty, Fatima [Ty.Fatima@epa.gov]; Poalinelli, Edwin [POALINELLI.EDWIN@EPA.GOV]
Subject: RE: AROMA Chemical Analyzers
Attachments: Passive Samplers for Investigations of Air Quality.PDF; RE: TCE in Outdoor Air and the AMD/TRW Microwave Superfund Site

Matt, see attached email to keep you in the loop.

It would be good to know where JMB/EKI is seeing elevated onsite (but not site related) outdoor air TCE concentrations. As he's asking about Triple Site I suspect the site is close, and therefore the results could be applicable to Triple Site. JMB wouldn't share what site he was working on; can they keep this data confidential, or do we have a 'hook' that would require EKI to share this data (or perhaps Alana can also ask)?

For JMBs request for Triple Site outdoor air results, he already has the outdoor air results though 2019 as it's posted in a tech memo on the EPA website. However, as 80%(ish) of outdoor samples have the same RES# as indoor air samples, showing the outdoor air RES# sample results on a figure I understand would be PII. I'll see Alana today so we'll go over.

Also, not quite related to AROMA, but somewhat in-line. Has outdoor air sampling and wind velocity been studied to see what wind speeds and duration could result in high bias to Radiello sampling? For Triple Site, the offsite locations I understand had lower TCE concentrations than onsite (validated results pending), what I don't know is if the localized wind patterns are the same.

4.2 Placing Passive Samplers Indoors

Three technical factors should be considered in deploying passive samplers indoors:

- Air velocity: The rate of air flow past passive sampler devices can result in high bias via turbulent uptake for most samplers, so sampler devices should not be placed near areas prone to high air flow such as areas near windows, doors, chimneys, and air vents. Areas with insufficient air circulation, which can result in low bias via starvation, also should be avoided to provide a representative atmosphere to the sampler.

Michael

From: Lee, Alana <lee.alana@epa.gov>
Sent: Tuesday, June 22, 2021 5:53 PM
To: Schulman, Michael <Schulman.Michael@epa.gov>; Plate, Mathew <Plate.Mathew@epa.gov>
Subject: Fwd: AROMA Chemical Analyzers

I talked with JMB today regarding our experience with Entanglement's AROMA. I couldn't recall the TCE detection limit for the AROMA but I think it is around 0.2 ug/m3 John indicated the product info sheet indicated 0.1 ug/m3 which is lower than HAPSITE John will follow up with Tony Miller

Begin forwarded message:

From: John Montgomery-Brown <jmontgomery-brown@ekiconsult.com>
Date: June 22, 2021 at 1:44:20 PM PDT
To: "Lee, Alana" <lee.alana@epa.gov>
Cc: Zachary Salin <zsalin@ekiconsult.com>
Subject: AROMA Chemical Analyzers

Hi Alana,

I am doing some work for a non-Google client regarding relatively elevated TCE concentrations in ambient air (i.e., greater than IA RSLs) in Sunnyvale. Our client is asking us to perform some additional ambient air sampling in an attempt to identify the source of this TCE (which is not from an onsite source). While discussing advantages/disadvantages of various approaches (e.g., Summas, Radiellos, the use of a Hapsite), the client requested that we look into the potential use of an AROMA chemical analyzer that he'd heard about at a conference (he thought that perhaps the unit might have a lower reporting limit than a Hapsite).

In looking at some of the literature for the AROMA chemical analyzer (see the attached), it seems like the instrument might be useful. However, never having heard of the instrument before, I thought I'd ask whether you were familiar with the instrument at all and, if so, if you had any opinions about it relative to a Hapsite.

Thanks!

JMB

John Montgomery-Brown, Ph.D.
Senior Engineer / Chemist
EKI Environment & Water, Inc.
2001 Junipero Serra Boulevard, Suite 300
Daly City, California 94014
P: (650) 292-9100 | D: (650) 292-9143
jmontgomery-brown@ekiconsult.com | www.ekiconsult.com